

Fig. 1

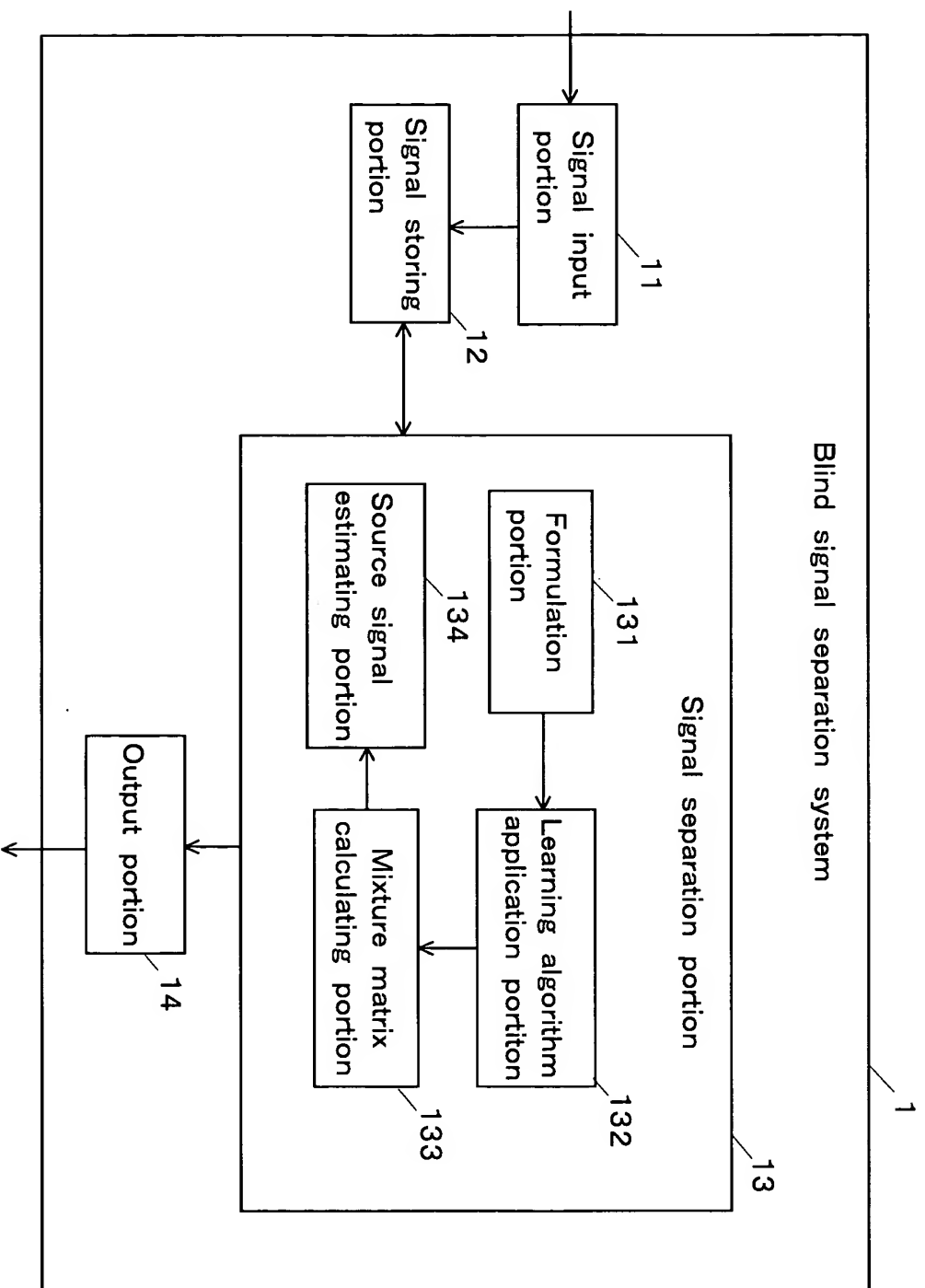


Fig. 2

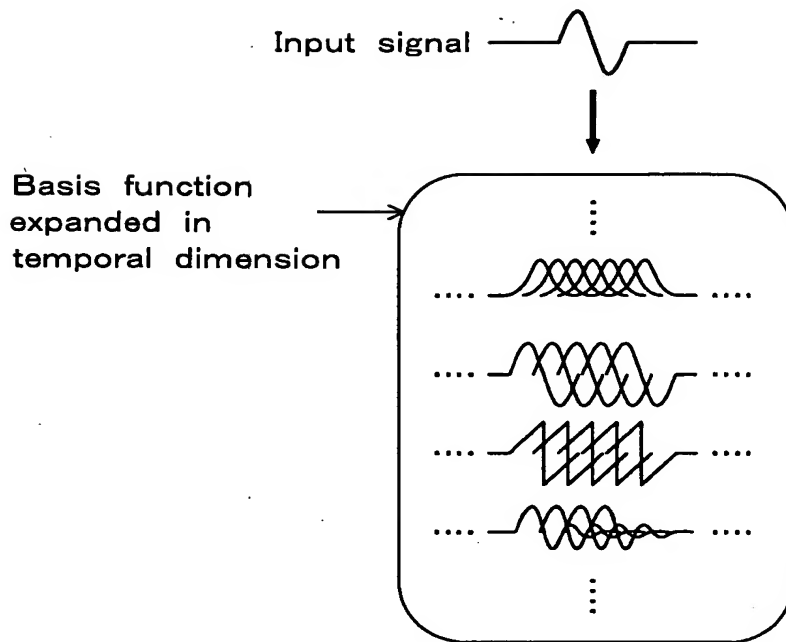


Fig. 3

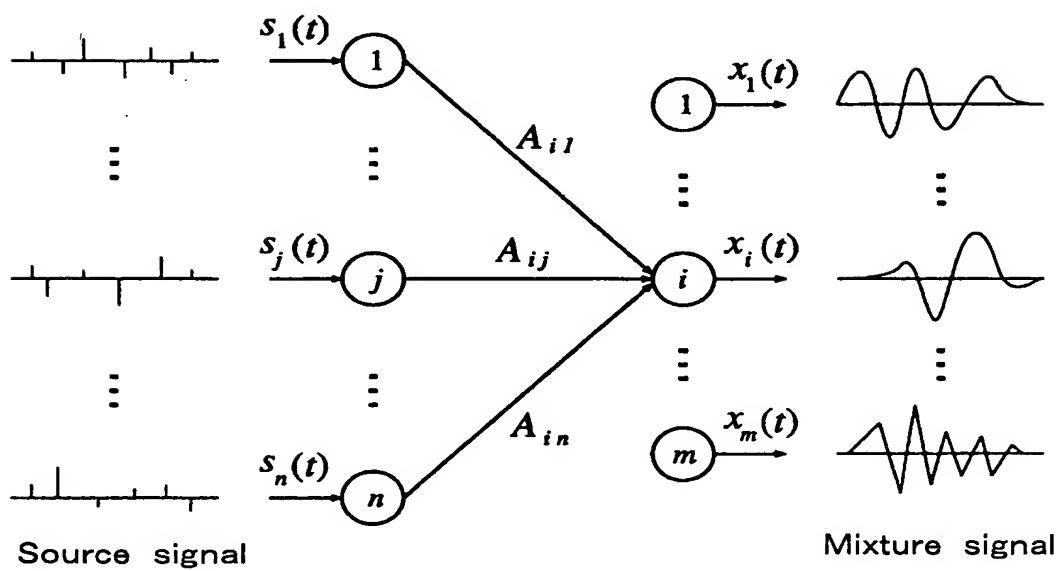


Fig. 4

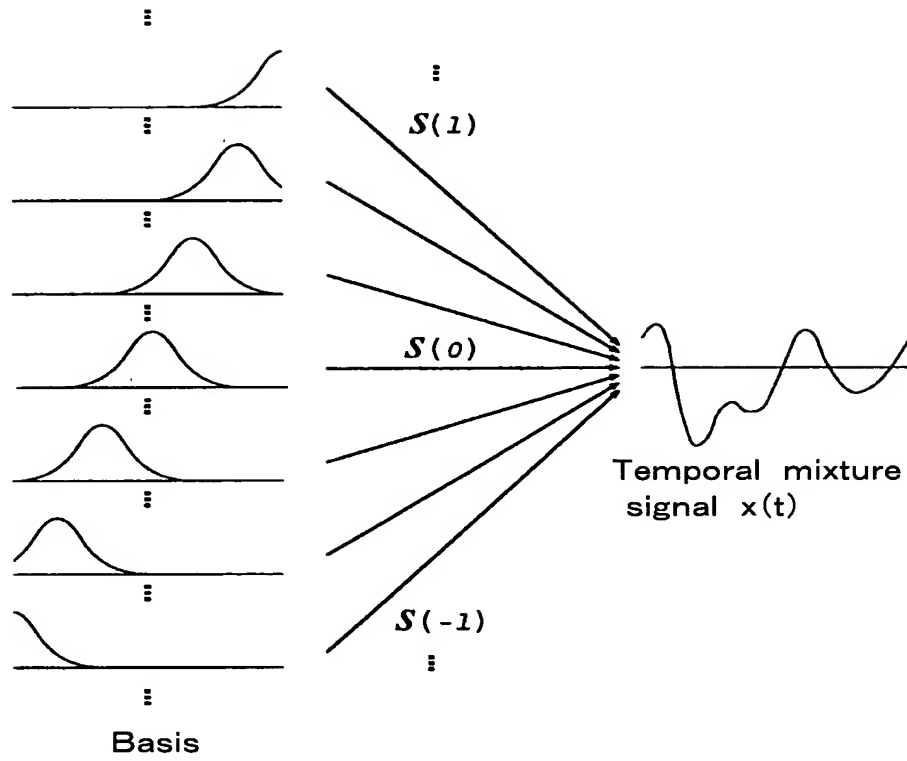
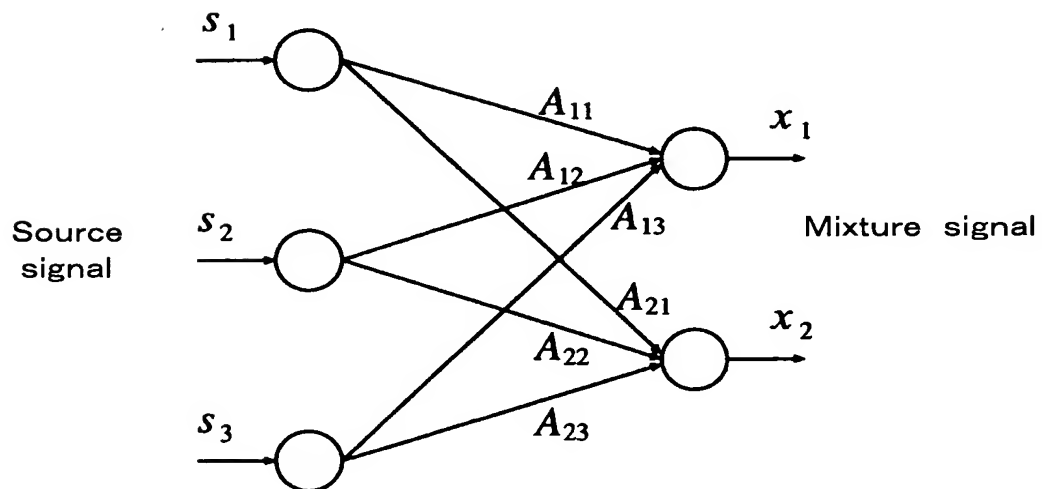


Fig. 5



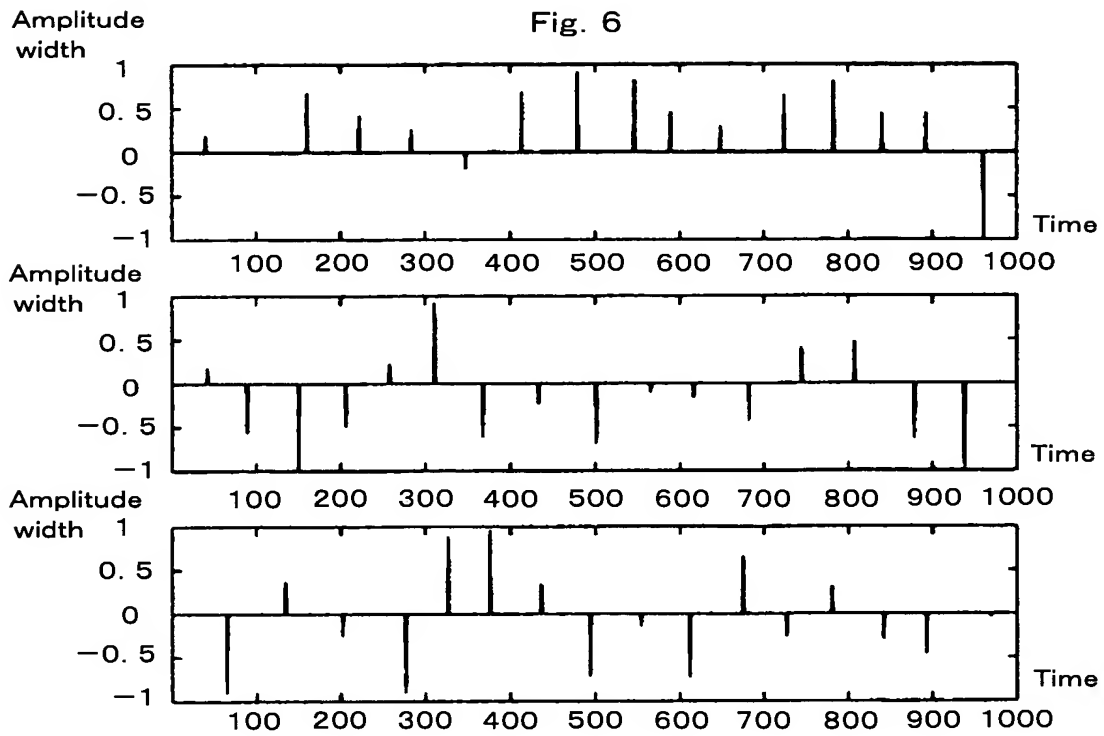


Fig. 7

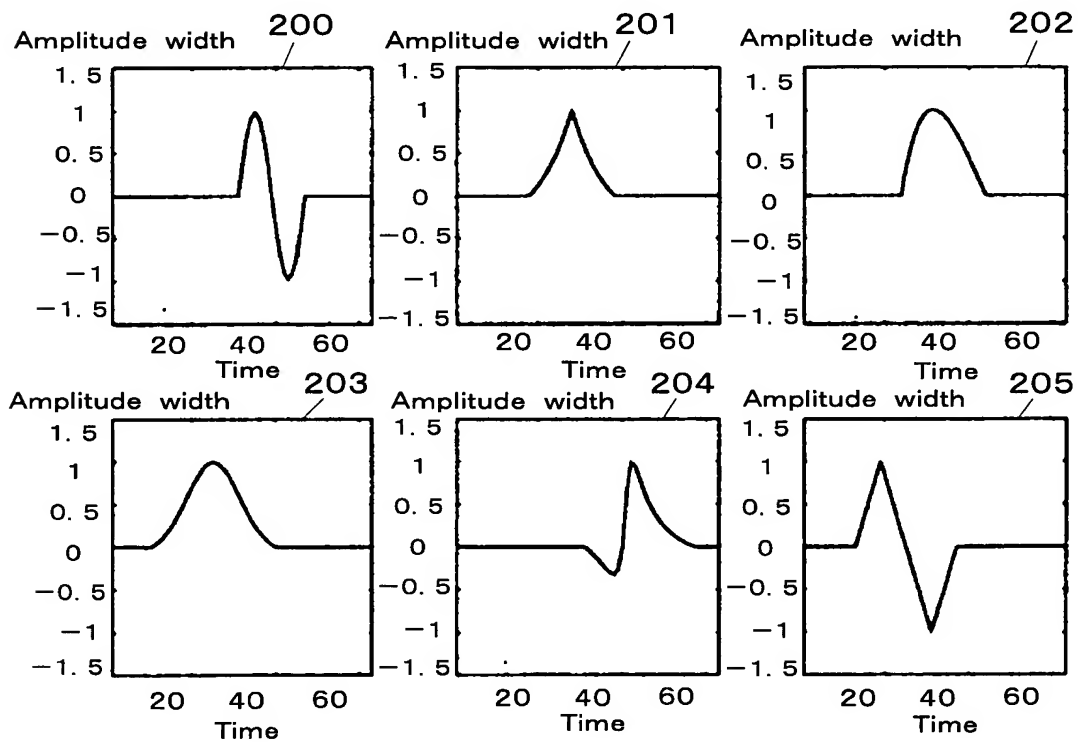


Fig. 8

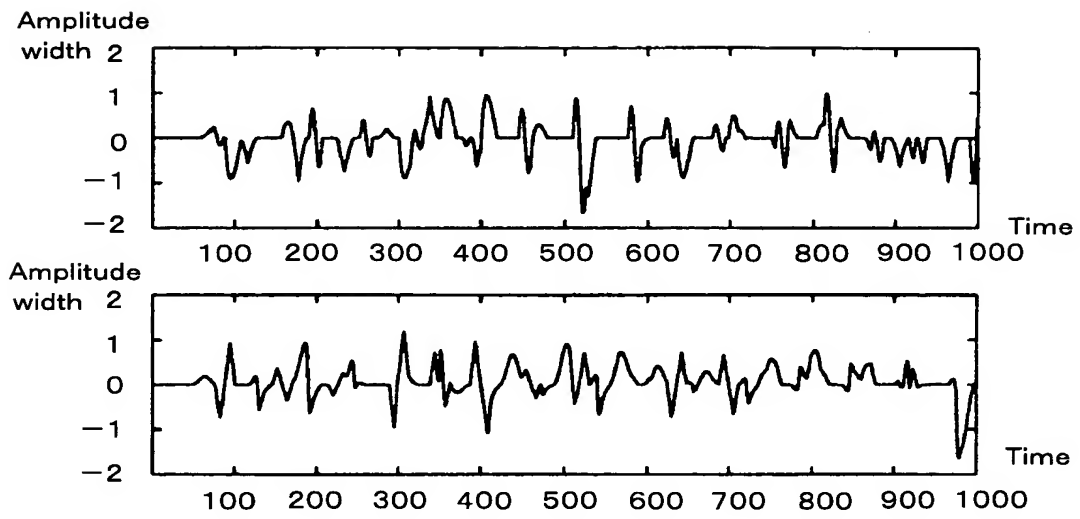


Fig. 9

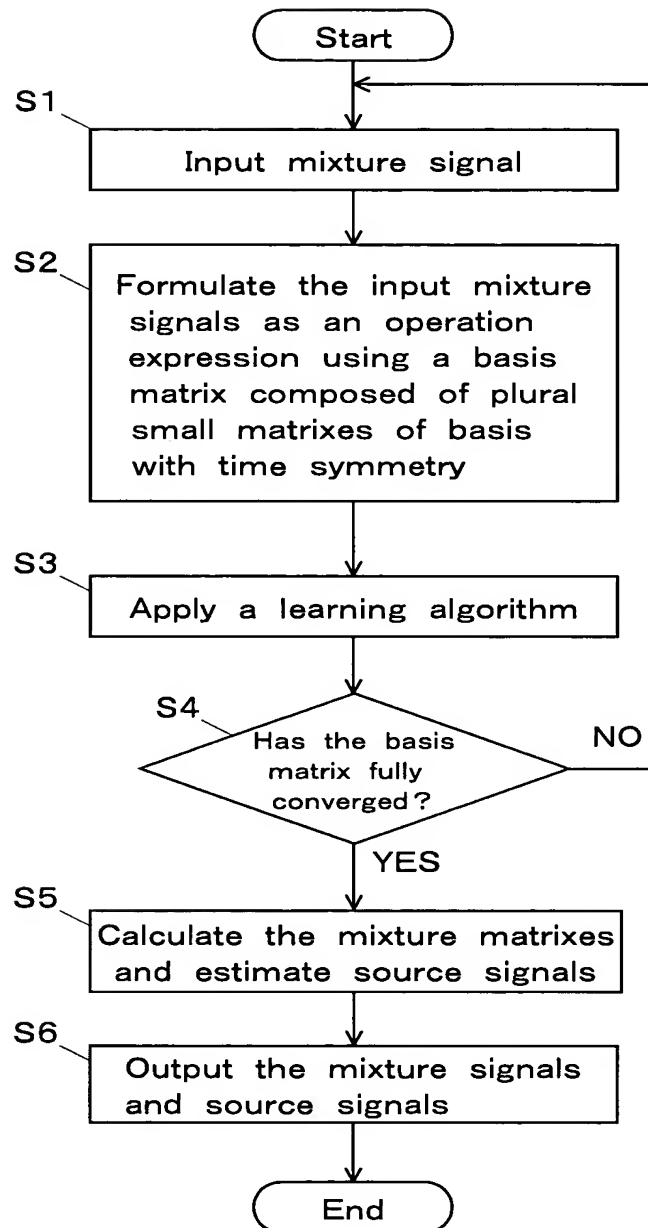



Fig. 10

$$\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} A_{11} & A_{12} & A_{13} \\ A_{21} & A_{22} & A_{23} \end{bmatrix} \begin{bmatrix} s_1 \\ s_2 \\ s_3 \end{bmatrix}$$



$$\begin{bmatrix} A \end{bmatrix}$$

Fig. 11

$$\begin{bmatrix} A_{ij} \end{bmatrix} = \begin{bmatrix} A_{ij(31)} \cdots A_{ij(0)} \cdots A_{ij(-31)} \\ \vdots \\ A_{ij(31)} \cdots A_{ij(0)} \cdots A_{ij(-31)} \\ \vdots \\ A_{ij(31)} \cdots A_{ij(0)} \cdots A_{ij(-31)} \end{bmatrix}$$

Fig. 12

$$\begin{bmatrix} s_j \end{bmatrix} = \begin{bmatrix} s_j(-62) \\ \vdots \\ s_j(0) \\ \vdots \\ s_j(62) \end{bmatrix}$$

Fig. 13

$$\begin{bmatrix} A_{ij(31)} & \cdots & A_{ij(0)} & \cdots & A_{ij(-31)} \\ & \ddots & & & \vdots & \ddots \\ & & A_{ij(31)} & \cdots & A_{ij(0)} & \cdots & A_{ij(-31)} \\ & & & \ddots & \vdots & \ddots & \\ & & & & A_{ij(31)} & \cdots & A_{ij(0)} & \cdots & A_{ij(-31)} \end{bmatrix}$$

Fig. 14

$$\begin{bmatrix} \hat{A}_{11} & \hat{A}_{12} & \hat{A}_{13} \\ \hat{A}_{21} & \hat{A}_{22} & \hat{A}_{23} \end{bmatrix} \Rightarrow \begin{bmatrix} A \end{bmatrix}$$

Fig. 15

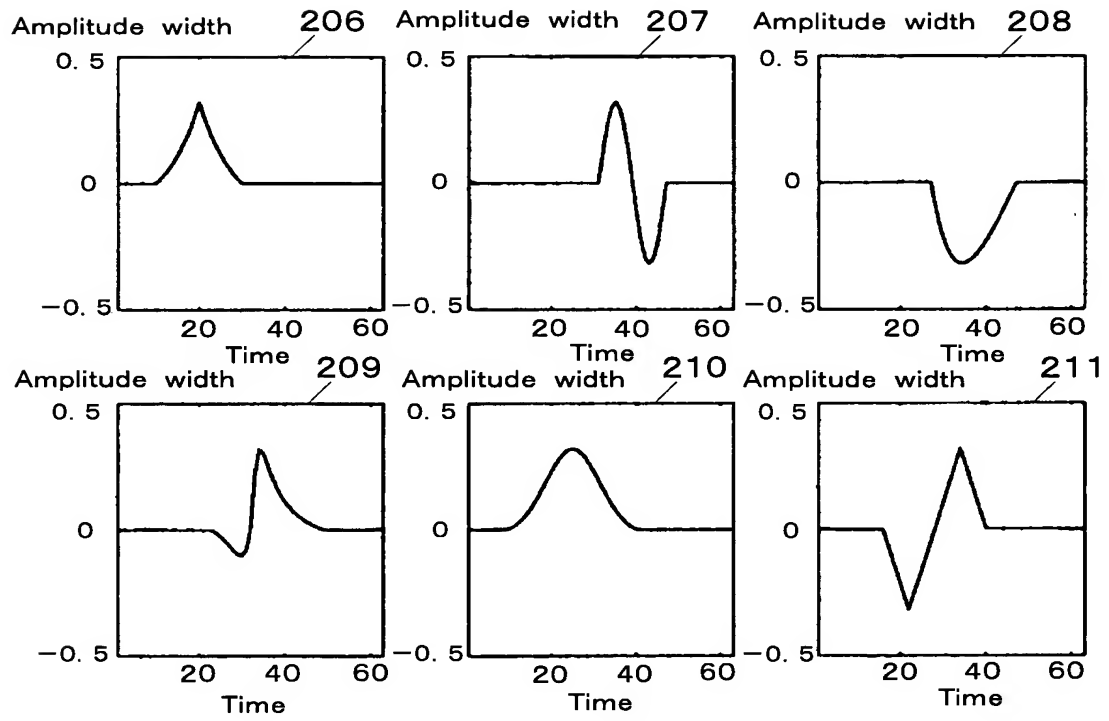


Fig. 16

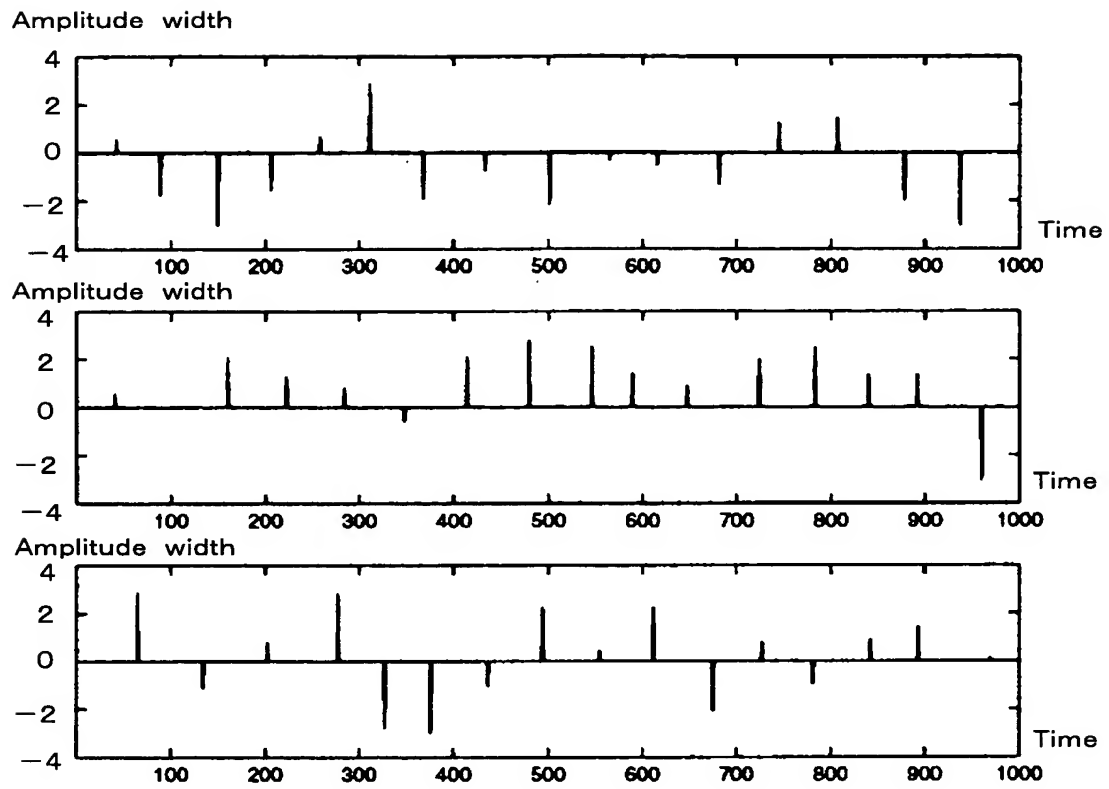


Fig. 17

	$s_1(t)$	$s_2(t)$	$s_3(t)$
Estimated signal 1	-0.0184	0.9965	-0.0095
Estimated signal 2	0.9985	-0.0186	0.0058
Estimated signal 3	-0.0051	0.0099	-0.9976

Fig. 18

$$\begin{bmatrix} x(-q) \\ \vdots \\ x(0) \\ \vdots \\ x(q) \end{bmatrix} = \begin{bmatrix} & & & & \\ & & & & \\ & & A & & \\ & & & & \\ & & & & \end{bmatrix} \begin{bmatrix} s(-2q) \\ \vdots \\ \vdots \\ s(0) \\ \vdots \\ \vdots \\ s(2q) \end{bmatrix} \quad (\text{formula 12})$$

$$\begin{bmatrix} A(q) & \cdots & A(0) & \cdots & A(-q) & & \\ & \ddots & \ddots & \ddots & \vdots & \ddots & \\ & & A(q) & \ddots & A(0) & \ddots & A(-q) \\ & & & \ddots & \vdots & \ddots & \ddots \\ & & & & A(q) & \cdots & A(0) & \cdots & A(-q) \end{bmatrix} \quad (\text{formula 13})$$

Fig. 19

$$\begin{bmatrix} x_1 \\ \vdots \\ x_m \end{bmatrix} = \begin{bmatrix} A_{11} \\ \vdots \\ A_{m1} \end{bmatrix} \cdots \begin{bmatrix} A_{1n} \\ \vdots \\ A_{mn} \end{bmatrix} \begin{bmatrix} s_1 \\ \vdots \\ s_n \end{bmatrix} \quad (\text{formula 14})$$

Fig. 20

$$[A] = \begin{bmatrix} A_{11} & \cdots & A_{1n} \\ \vdots & \ddots & \vdots \\ A_{m1} & \cdots & A_{mn} \end{bmatrix}$$

Fig. 21

$$[A_{ij}] = \begin{bmatrix} A_{ij}(q) & \cdots & A_{ij}(0) & \cdots & A_{ij}(-q) \\ & \ddots & \ddots & \ddots & \vdots & \ddots \\ & & A_{ij}(q) & \ddots & A_{ij}(0) & \ddots & A_{ij}(-q) \\ & & & \ddots & \vdots & \ddots & \ddots & \ddots \\ & & & & A_{ij}(q) & \cdots & A_{ij}(0) & \cdots & A_{ij}(-q) \end{bmatrix}$$